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STEWART ANNA

Systems Development Handbook, Fourth Edition Elsevier

Offering insights into the adaptational strategies that were employed by higher education institutions worldwide during the Covid-19 pandemic, this volume considers the lasting effects of adaptation and change, as well as the perception of universities' role in society and desired ways of operating. Nearly overnight, the pandemic forced university leaders and faculty across the world to switch to remote models, not only of teaching and learning but also of managing an entire institution. This book recognizes how the scale of challenges as well as the range of measures specific universities had to undertake was uneven, with some being better equipped than the others. Using a selection of international case studies, it offers an insight into strategies employed by institutions worldwide to navigate the crisis, and highlights the targets and objectives addressed by them during these processes. In so doing, it offers invaluable lessons for the years to come. An indispensable study into strategies that result in resilience

and sustainability for universities, this book is essential reading for scholars of education, pedagogy, and organizational change in the higher education sector, as well as educational leaders around the world.

Practical Industrial Safety, Risk Assessment and Shutdown Systems
Elsevier

This book is aimed at engineers and technicians who need to have a clear, practical understanding of the essentials of process control, loop tuning and how to optimize the operation of their particular plant or process. The reader would typically be involved in the design, implementation and upgrading of industrial control systems. Mathematical theory has been kept to a minimum with the emphasis throughout on practical applications and useful information. This book will enable the reader to: * Specify and design the loop requirements for a plant using PID control * Identify and apply the essential building blocks in automatic control * Apply the procedures for open and closed loop tuning * Tune control loops with significant dead-times * Demonstrate a clear understanding of analog process control and how to tune analog loops * Explain concepts used by major manufacturers who use the most up-to-date technology

in the process control field. A practical focus on the optimization of process and plant. Readers develop professional competencies, not just theoretical knowledge. Reduce dead-time with loop tuning techniques

Computer and Network Security Essentials John Wiley & Sons

This book will allow you to gain practical skills and know-how in grounding, bonding, lightning & surge protection. Few topics generate as much controversy and argument as that of grounding and the associated topics of surge protection, shielding and lightning protection of electrical and electronic systems. Poor grounding practice can be the cause of continual and intermittent difficult-to-diagnose problems in a facility. This book looks at these issues from a fresh yet practical perspective and enables you to reduce expensive downtime on your plant and equipment to a minimum by correct application of these principles. Learning outcomes:*

- Apply the various methods of grounding electrical systems*
- Detail the applicable national Standards*
- Describe the purposes of grounding and bonding*
- List the types of systems that cannot be grounded*
- Describe what systems can be operated ungrounded*
- Correctly shield sensitive communications cables from noise and interference*
- Apply practical knowledge of surge and transient protection*
- Troubleshoot and fix grounding and surge problems*
- Design, install and test an effective grounding system for electronic equipment*
- Understand lightning and how to minimize its impact on your facility*
- Protect sensitive equipment from lightning. An engineer's guide to earthing, shielding, lightning and surge protection designed to deliver reliable equipment and communications systems

that comply with international and national codes · Discover how to reduce plant downtime and intermittent faults by implementing best-practice grounding/earthing techniques · Learn the principles of cable shielding in communication networks

World Development Indicators [computer File] Taylor & Francis

Designed to increase understanding on a practical and theoretical basis, this invaluable resource provides engineers, plant operators, electricians and technicians with a thorough grounding in the principles and practicalities behind power system protection. Coverage of the fundamental knowledge needed to specify, use and maintain power protection systems is included, helping readers to increase plant efficiency, performance and safety. Consideration is also given to the practical techniques and engineering challenges encountered on a day-to-day basis, making this an essential resource for all.

CIO Springer

A comprehensive overview of the new business context for biopharma companies, featuring numerous case studies and state-of-the-art marketing models. Biotechnology has developed into a key innovation driver especially in the field of human healthcare. But as the biopharma industry continues to grow and expand its reach, development costs are colliding with aging demographics and cost-containment policies of private and public payers. Concurrently, the development and increased affordability of sophisticated digital technologies has fundamentally altered many industries including healthcare. The arrival of new information technology (infotech) companies on the healthcare scene presents both opportunities and challenges for the biopharma business

model. To capitalize on new digital technologies from R&D through commercialization requires industry leaders to adopt new business models, develop new digital and data capabilities, and partner with innovators and payers worldwide. Written by two experts, both of whom have had decades of experience in the field, this book provides a comprehensive overview of the new business context and marketing models for biotech companies. Informed by extensive input by senior biotech executives and leading consultancies serving the industry, it analyzes the strategies and key success factors for the financing, development, and commercialization of novel therapeutic products, including strategies for engagement with patients, physicians and healthcare payers. Throughout case studies provide researchers, corporate marketers, senior managers, consultants, financial analysts, and other professionals involved in the biotech sector with insights, ideas, and models. JACQUALYN FOUSE, PhD, RETIRED PRESIDENT AND CHIEF OPERATING OFFICER, CELGENE "Biotech companies have long been innovators, using the latest technologies to enable cutting edge science to help patients with serious diseases. This book is essential to help biotech firms understand how they can—and must—apply the newest technologies including disruptive ones, alongside science, to innovate and bring new value to the healthcare system." BRUCE DARROW, MD, PhD, CHIEF MEDICAL INFORMATION OFFICER, MOUNT SINAI HEALTH SYSTEM "Simon and Giovannetti have written an essential user's manual explaining the complicated interplay of the patients who deserve cutting-edge medical care, the biotechnology

companies (big and small) creating the breakthroughs, and the healthcare organizations and clinicians who bridge those worlds." EMMANUEL BLIN, FORMER CHIEF STRATEGY OFFICER AND SENIOR VICE PRESIDENT, BRISTOL-MYERS SQUIBB "If you want to know where biopharma is going, read this book! Our industry is facing unprecedented opportunities driven by major scientific breakthroughs, while transforming itself to address accelerated landscape changes driven by digital revolutions and the emergence of value-based healthcare worldwide. In this ever-changing context, we all need to focus everything we do on the patients. They are why we exist as an industry, and this is ultimately what this insightful essay is really about." JOHN MARAGANORE, PRESIDENT AND CHIEF EXECUTIVE OFFICER, ALNYLAM PHARMACEUTICALS "Since the mapping of the human genome was completed nearly 15 years ago, the biotechnology industry has led the rapid translation of raw science to today's innovative medicines. However, the work does not stop in the lab. Delivering these novel medicines to patients is a complex and multifaceted process, which is elegantly described in this new book."

Computer Science and Education
Elsevier

The objective of this book is to introduce the basic concepts of big data computing and then to describe the total solution of big data problems using HPCC, an open-source computing platform. The book comprises 15 chapters broken into three parts. The first part, Big Data Technologies, includes introductions to big data concepts and techniques; big data analytics; and visualization and learning techniques. The second part, LexisNexis Risk Solution to Big Data,

focuses on specific technologies and techniques developed at LexisNexis to solve critical problems that use big data analytics. It covers the open source High Performance Computing Cluster (HPCC Systems®) platform and its architecture, as well as parallel data languages ECL and KEL, developed to effectively solve big data problems. The third part, Big Data Applications, describes various data intensive applications solved on HPCC Systems. It includes applications such as cyber security, social network analytics including fraud, Ebola spread modeling using big data analytics, unsupervised learning, and image classification. The book is intended for a wide variety of people including researchers, scientists, programmers, engineers, designers, developers, educators, and students. This book can also be beneficial for business managers, entrepreneurs, and investors. [Digital Destiny](#) Elsevier

New technologies are revolutionising the way manufacturing and supply chain management are implemented. These changes are delivering manufacturing firms the competitive advantage of a highly flexible and responsive supply chain and manufacturing system to ensure that they meet the high expectations of their customers, who, in today's economy, demand absolutely the best service, price, delivery time and product quality. To make e-manufacturing and supply chain technologies effective, integration is needed between various, often disparate systems. To understand why this is such an issue, one needs to understand what the different systems or system components do, their objectives, their specific focus areas and how they interact with other systems. It is also required to understand how these

systems evolved to their current state, as the concepts used during the early development of systems and technology tend to remain in place throughout the life-cycle of the systems/technology. This book explores various standards, concepts and techniques used over the years to model systems and hierarchies in order to understand where they fit into the organization and supply chain. It looks at the specific system components and the ways in which they can be designed and graphically depicted for easy understanding by both information technology (IT) and non-IT personnel. Without a good implementation philosophy, very few systems add any real benefit to an organization, and for this reason the ways in which systems are implemented and installation projects managed are also explored and recommendations are made as to possible methods that have proven successful in the past. The human factor and how that impacts on system success are also addressed, as is the motivation for system investment and subsequent benefit measurement processes. Finally, the vendor/user supply/demand within the e-manufacturing domain is explored and a method is put forward that enables the reduction of vendor bias during the vendor selection process. The objective of this book is to provide the reader with a good understanding regarding the four critical factors (business/physical processes, systems supporting the processes, company personnel and company/personal performance measures) that influence the success of any e-manufacturing implementation, and the synchronization required between these factors. · Discover how to implement the flexible and responsive supply chain and manufacturing

execution systems required for competitive and customer-focused manufacturing. Build a working knowledge of the latest plant automation, manufacturing execution systems (MES) and supply chain management (SCM) design techniques. Gain a fuller understanding of the four critical factors (business and physical processes, systems supporting the processes, company personnel, performance measurement) that influence the success of any e-manufacturing implementation, and how to evaluate and optimize all four factors

Intro to Computer Based Control Systems William Andrew

Advanced Techniques in Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Advanced Techniques in Computing Sciences and Software Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2008) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2008).

Formulas and Conversions Springer

This three-volume set constitutes selected papers presented during the 17th International Conference on Computer Science and Education, ICCSE 2022, held in Ningbo, China, in August 2022. The 168 full papers and 43 short papers presented were thoroughly reviewed and selected from the 510 submissions. They focus on a wide range

of computer science topics, especially AI, data science, and engineering, and technology-based education, by addressing frontier technical and business issues essential to the applications of data science in both higher education and advancing e-Society.

Practical Batch Process Management

Simon and Schuster

Variable frequency drive - VFD - frequency drives - reduciemotor.

Advanced Techniques in Computing Sciences and Software Engineering

Newnes

There are many data communications titles covering design, installation, etc, but almost none that specifically focus on industrial networks, which are an essential part of the day-to-day work of industrial control systems engineers, and the main focus of an increasingly large group of network specialists. The focus of this book makes it uniquely relevant to control engineers and network designers working in this area. The industrial application of networking is explored in terms of design, installation and troubleshooting, building the skills required to identify, prevent and fix common industrial data communications problems - both at the design stage and in the maintenance phase. The focus of this book is 'outside the box'. The emphasis goes beyond typical communications issues and theory to provide the necessary toolkit of knowledge to solve industrial communications problems covering RS-232, RS-485, Modbus, Fieldbus, DeviceNet, Ethernet and TCP/IP. The idea of the book is that in reading it you should be able to walk onto your plant, or facility, and troubleshoot and fix communications problems as quickly as possible. This book is the only title that

addresses the nuts-and-bolts issues involved in design, installation and troubleshooting that are the day-to-day concern of engineers and network specialists working in industry. *

Provides a unique focus on the industrial application of data networks * Emphasis goes beyond typical communications issues and theory to provide the necessary toolkit of knowledge to solve industrial communications problems *

Provides the tools to allow engineers in various plants or facilities to troubleshoot and fix communications problems as quickly as possible

Practical Grounding, Bonding, Shielding and Surge Protection Newnes

An increasingly important element of sport business is the management of the myriad of relationships in which sport entities are involved. It is the relationship management aspect of sport which is the unique focus of this book.

Sport Public Relations and Communication discusses and reformulates the principles of public relations and communications by demonstrating how they can be successfully applied in practice within a sports context. Features include: discussion customized to apply directly to sports management, thoroughly exploring the nuances of the field case studies used throughout the book to illustrate the practical application of theory discussion questions to help formulate and articulate defensible arguments in relation to public relations and communications strategies, forging strong links between theory and practice examples used to draw from the authors' extensive experience in North America, the United Kingdom, Europe and Australia and New Zealand, providing a well rounded and global understanding of the field. This is the first book to

explore public relations and communications in the sports industry in a global context. It brings together applicable strategies for the sport management or marketing student, and provides a concise guide to how public relations and communications strategies and principles can be applied to sport management and marketing issues.

Remote Sensing for Environmental Data in Albania CRC Press

This book introduces readers to the tools needed to protect IT resources and communicate with security specialists when there is a security problem. The book covers a wide range of security topics including Cryptographic Technologies, Network Security, Security Management, Information Assurance, Security Applications, Computer Security, Hardware Security, and Biometrics and Forensics. It introduces the concepts, techniques, methods, approaches, and trends needed by security specialists to improve their security skills and capabilities. Further, it provides a glimpse into future directions where security techniques, policies, applications, and theories are headed.

The book represents a collection of carefully selected and reviewed chapters written by diverse security experts in the listed fields and edited by prominent security researchers. Complementary slides are available for download on the book's website at Springer.com.

Practical Power System Protection Elsevier

The aim of this book is to introduce the general area of Digital Signal Processing from a practical point of view with a working minimum of mathematics. The emphasis is placed on the practical applications of DSP: implementation issues, tricks and pitfalls. Intuitive explanations and appropriate examples

are used to develop a fundamental understanding of DSP theory, laying a firm foundation for the reader to pursue the matter further. The reader will develop a clear understanding of DSP technology in a variety of fields from process control to communications.* Covers the use of DSP in different engineering sectors, from communications to process control* Ideal for a wide audience wanting to take advantage of the strong movement towards digital signal processing techniques in the engineering world * Includes numerous practical exercises and diagrams covering many of the fundamental aspects of digital signal processing

Digital Business and Electronic Commerce U of Nebraska Press

War at the Speed of Light describes the revolutionary and ever-increasing role of directed-energy weapons (such as laser, microwave, electromagnetic pulse, and cyberspace weapons) in warfare. Louis A. Del Monte delineates the threat that such weapons pose to disrupting the doctrine of Mutually Assured Destruction, which has kept the major powers of the world from engaging in nuclear warfare. Potential U.S. adversaries, such as China and Russia, are developing hypersonic missiles and using swarming tactics as a means to defeat the U.S. military. In response, the U.S. Department of Defense established the 2018 National Security Strategy, emphasizing directed-energy weapons, which project devastation at the speed of light and are capable of destroying hypersonic missiles and enemy drones and missile swarms. Del Monte analyzes how modern warfare is changing in three fundamental ways: the pace of war is quickening, the rate at which weapons project devastation is reaching the

speed of light, and cyberspace is now officially a battlefield. In this acceleration of combat called "hyperwar," Del Monte shows how disturbingly close the world is to losing any deterrence to nuclear warfare.

CIO World Bank Publications

Facebook's psychological experiments and Edward Snowden's NSA leaks epitomize a world of increasing information awareness in the social media ecosystem. With over a billion monthly active users, Facebook as a nation is overtaking China as the largest country in the world. President Barack Obama, in his 2011 State of the Union Address, called America "the nation of Edison and the Wright brothers" and "of Google and Facebook." U.S. Chief Information Officer Steven VanRoekel opines that America has become a "Facebook nation" that demands increased transparency and interactivity from the federal government. Ubiquitous social networks such as Facebook, Google+, Twitter, and YouTube are creating the technologies, infrastructures, and big data necessary for Total Information Awareness - a controversial surveillance program proposed by DARPA after the 9/11 attacks. NSA's secret PRISM program has reinvigorated WikiLeaks founder Julian Assange's accusation that "Facebook is the most appalling spying machine that has ever been invented." Facebook CEO Mark Zuckerberg once said, "We exist at the intersection of technology and social issues." This book offers discourse and practical advice on the privacy issue in the age of big data, business intelligence in social media, e-government and e-activism, as well as personal total information awareness. This expanded edition also includes insights from Wikipedian Emily Temple-Wood and

Facebook ROI experts Dennis Yu and Alex Houg.

Digital Product Management, Technology and Practice: Interdisciplinary Perspectives Elsevier

Our world is about to change. In *Digital Destiny: How the New Age of Data Will Change the Way We Live, Work, and Communicate*, Shawn DuBravac, chief economist and senior director of research at the Consumer Electronics Association (CEA), argues that the groundswell of digital ownership unfolding in our lives signals the beginning of a new era for humanity. Beyond just hardware acquisition, the next decade will be defined by an all-digital lifestyle and the “Internet of Everything”—where everything, from the dishwasher to the wristwatch, is not only online, but acquiring, analyzing, and utilizing the data that surrounds us. But what does this mean in practice? It means that some of mankind’s most pressing problems, such as hunger, disease, and security, will finally have a solution. It means that the rise of driverless cars could save thousands of American lives each year, and perhaps hundreds of thousands more around the planet. It means a departure from millennia-old practices, such as the need for urban centers. It means that massive inefficiencies, such as the supply chains in Africa allowing food to rot before it can be fed to the hungry, can be overcome. It means that individuals will have more freedom in action, work, health, and pursuits than ever before.

Practical Process Control for Engineers and Technicians Newnes

As Web-based systems and e-commerce

carry businesses into the 21st century, databases are becoming workhorses that shoulder each and every online transaction. For organizations to have effective 24/7 Web operations, they need powerhouse databases that deliver at peak performance-all the time. *High Performance Web Databases: Design, Development, and*

Practical Fiber Optics Springer Science & Business Media

In the past automation of the power network was a very specialized area but recently due to deregulation and privatization the area has become of a great importance because companies require more information and communication to minimize costs, reduce workforce and minimize errors in order to make a profit.* Covers engineering requirements and business implications of this cutting-edge and ever-evolving field * Provides a unique insight into a fast-emerging and growing market that has become and will continue to evolve into one of leading communication technologies * Written in a practical manner to help readers handle the transformation from the old analog environment to the modern digital communications-based one
Big Data Technologies and Applications Elsevier

SCADA systems are at the heart of the modern industrial enterprise. In a market that is crowded with high-level monographs and reference guides, more practical information for professional engineers is required. This book gives them the knowledge to design their next SCADA system more effectively.